AV SURROUND PROCESSOR

SS-592

SERVICE MANUAL

KENWOOD

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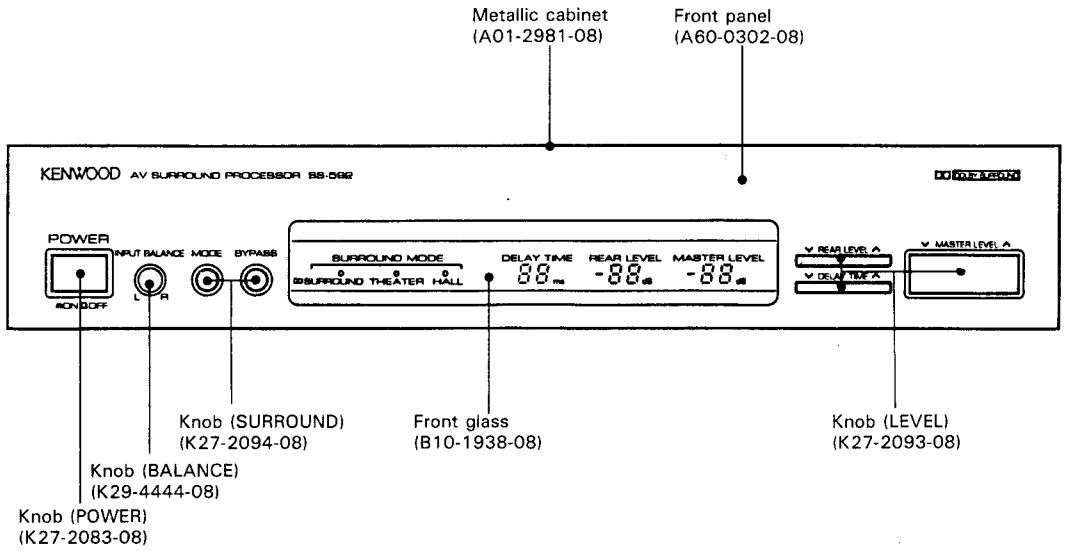
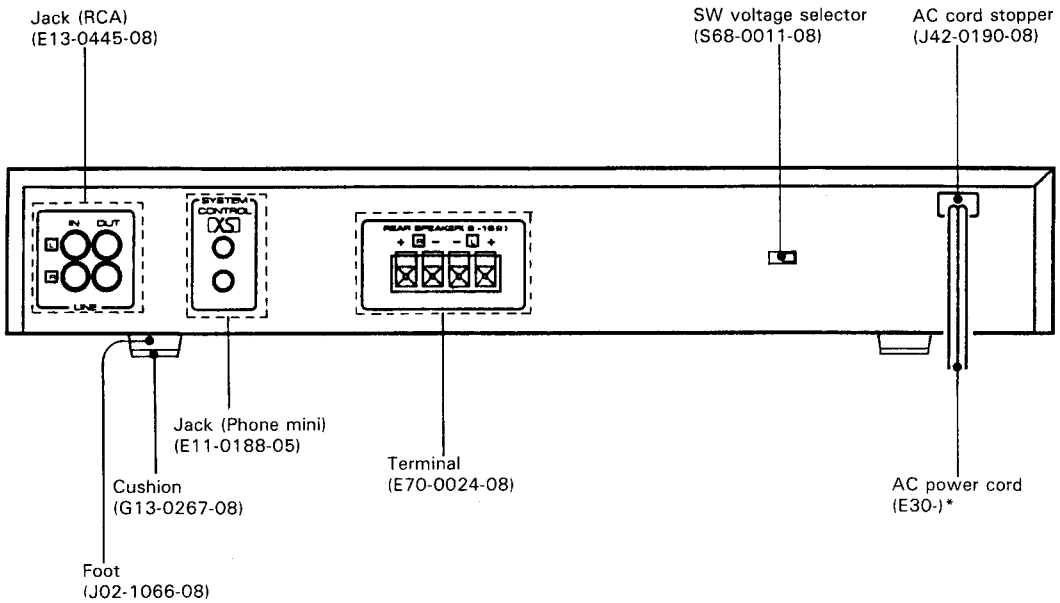
B51-4524-00 (MC) 2350





* Refer to parts list on page 10.

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMP SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
DOLBY SURROUND: ON							
1	DOLBY LEVEL	Connect AG to INPUT jack. (1kHz, 400mV)	Connect a DC voltmeter to TP(DOLBY LEVEL) and GND (CN102).	DOLBY SURROUND : ON	VR102(L) VR103(R)	300mV	(a)

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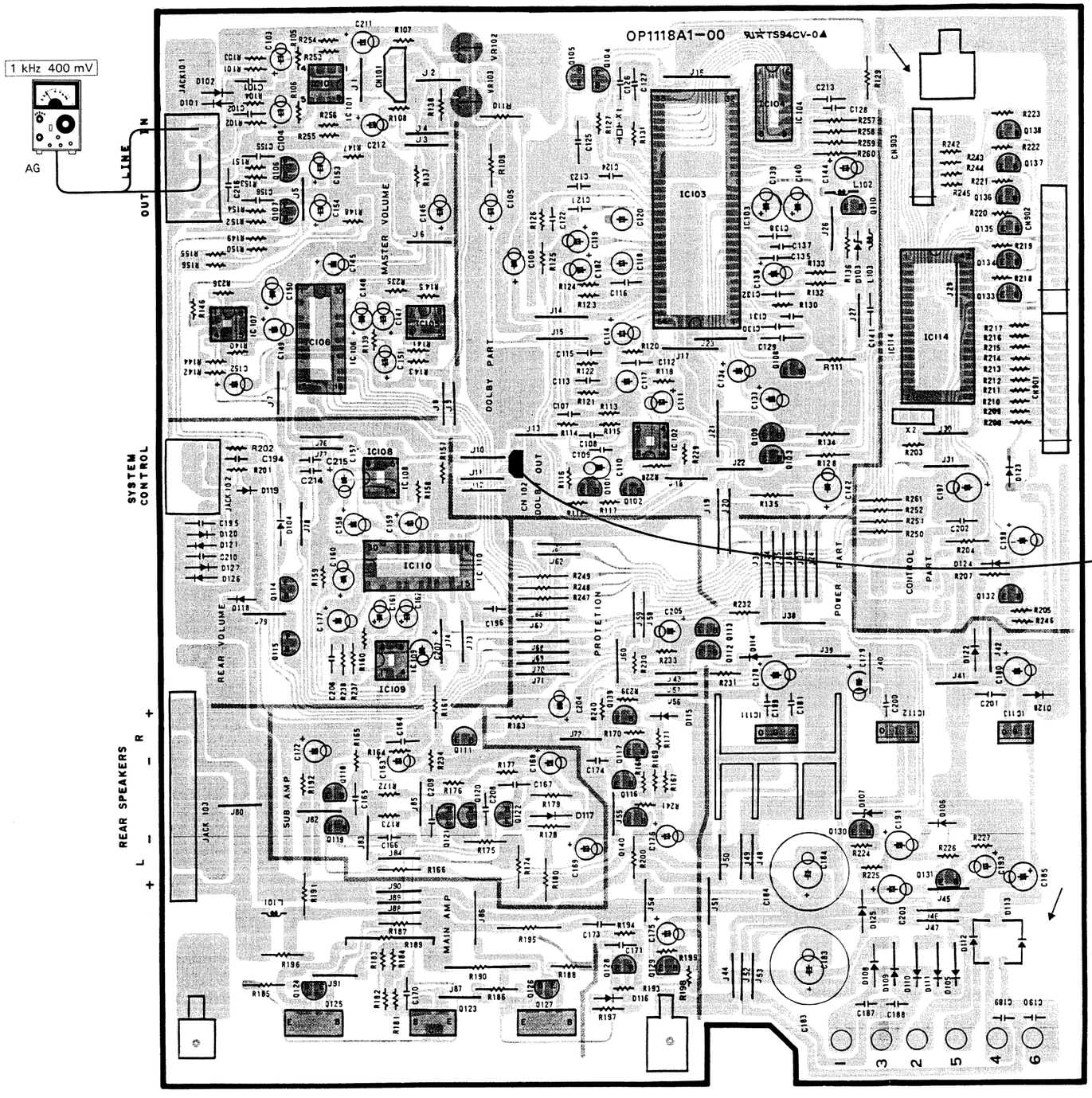
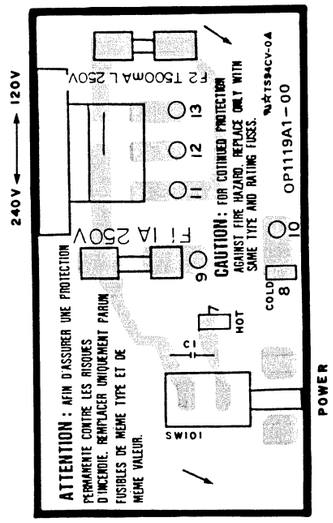
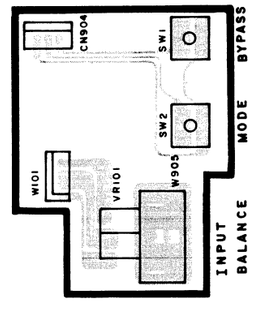
PC BOARD (Component side view)

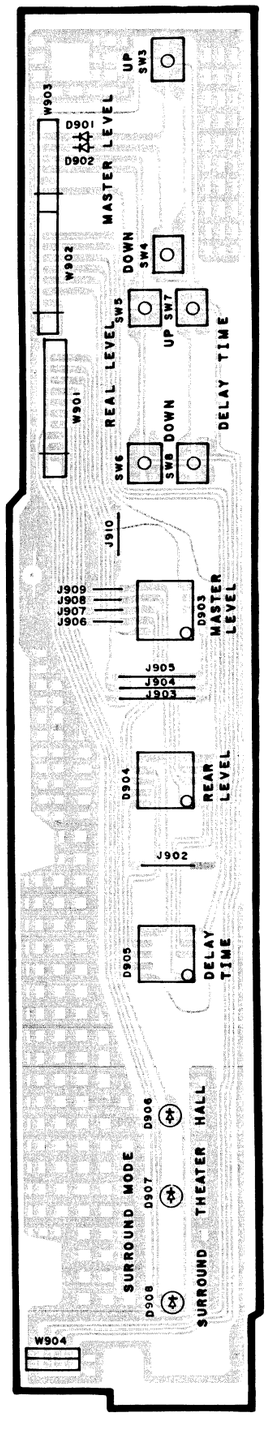



240V ⟷ 120V
F2 T500mA L 250V
F1 1A 250V
ATTENTION : AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLES DE MEME TYPE ET DE MEME VALEUR.
CAUTION : FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND RATING FUSES.
OP1119A1-00
HOT
COLD
SW101
POWER

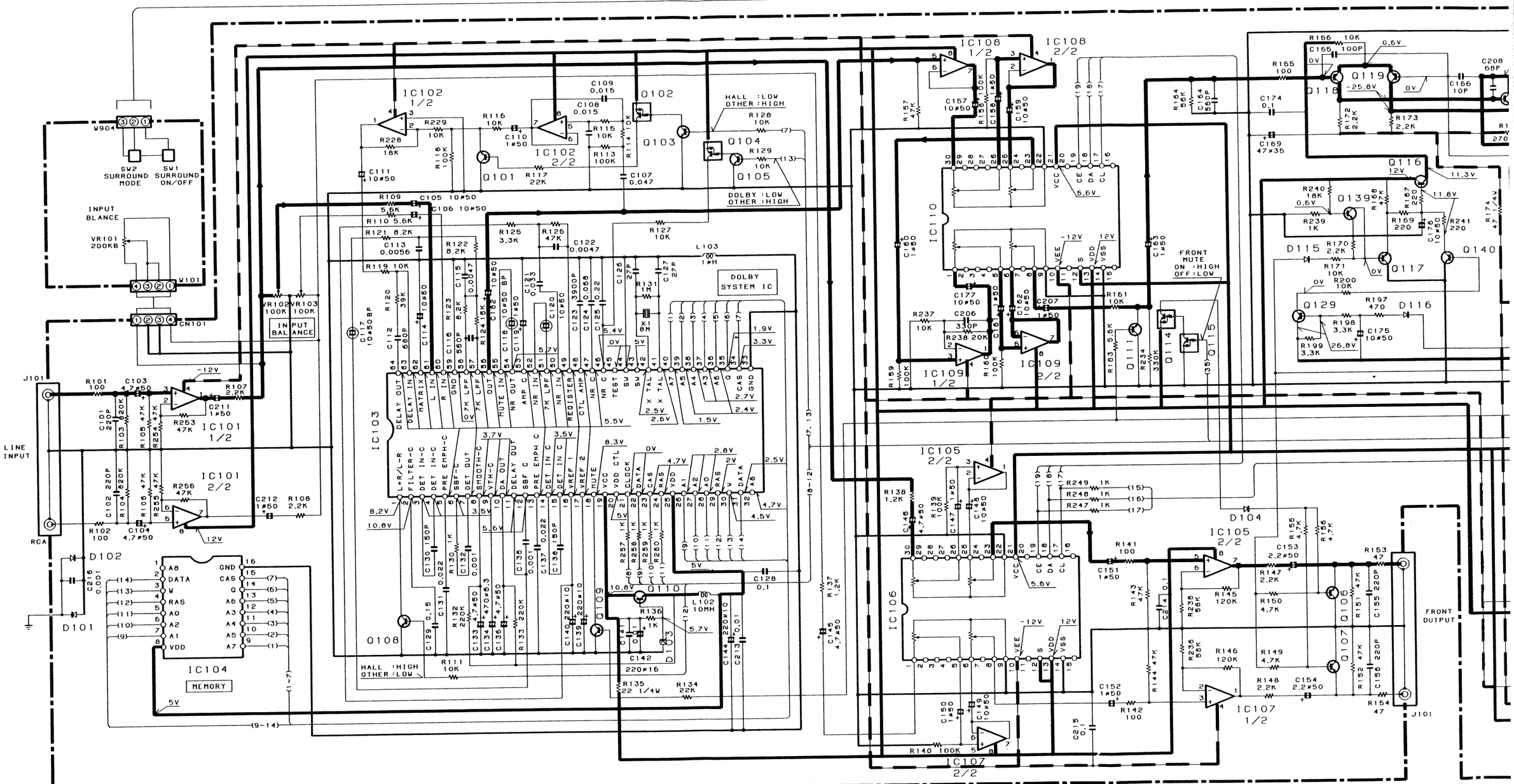
Dolby level : 300mV

DC voltmeter

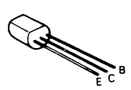




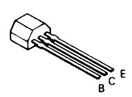
Refer to the schematic diagram for the values of resistors and capacitors.



2SA992
2SC1740
2SC1845
2SC2878

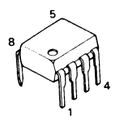


DTA143XS

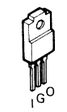


2SC4137

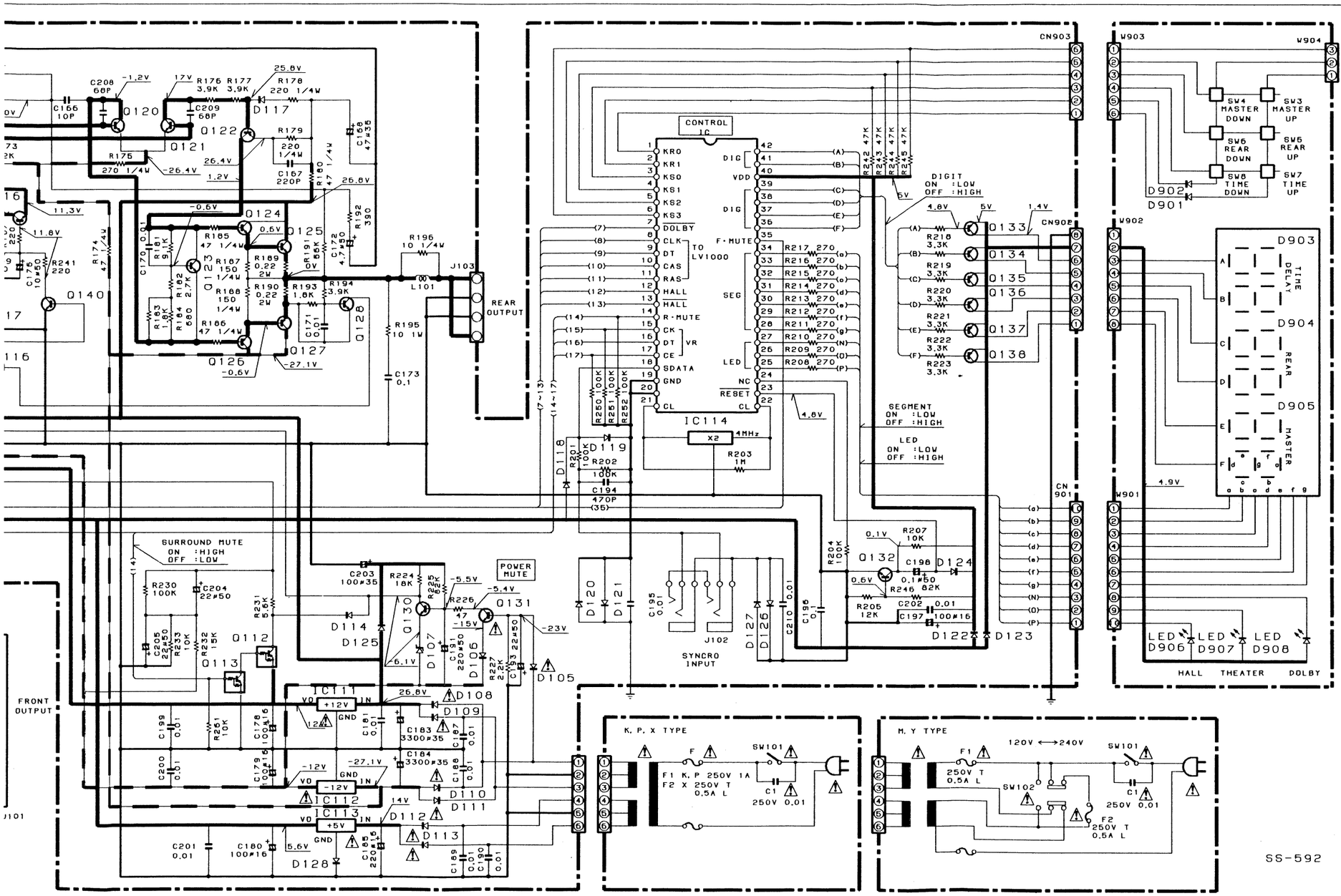
NJM4558DD



μPC7805AHF
μPC7812AHF



DC voltages are as measure
voltmeter. Values may vary
between individual instrument



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Q101, 106, 107, 111 : 2SC2678 (B)
Q102, 104, 112, 114 : DTA143XS
Q103, 105, 108, 109
116, 117, 130~132
139, 140 : 2SC1740
Q110, 124 : KSC2316-Y
Q113, 115 : DTC114Y
Q118, 119, 122, 129 : 2SA992 (E, F)
Q120, 121, 128 : 2SC1845 (F)
Q123 : 2SC4137 (V, W)
Q125 : 2SD2059
Q126 : KSA916-Y
Q127 : 2SB1367
Q133~138 : 2SA993S

IC101, 102, 105
107~109 : NJM4558DD
IC103 : LV1000N
IC104 : LM3364K-15
IC106, 110 : LC7536
IC111 : UPC7812AHF
IC112 : UPC7912AHF
IC113 : UPC7805AHF
IC114 : LC65620C-4861

D101, 102, 104, 106 : 1SS133
114~128
D103 : RD5.6ES (B2)
D105, 112, 113 : 1N4002
D107 : RD6.2ES (B2)
D108~111 : LT2A03
D901, 902 : 1N4148

D903~905 : B30-0125-08
D906~908 : B30-0143-05

ages are as measured with a high impedance r. Values may vary slightly due to variations individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical component. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y09-4100-10

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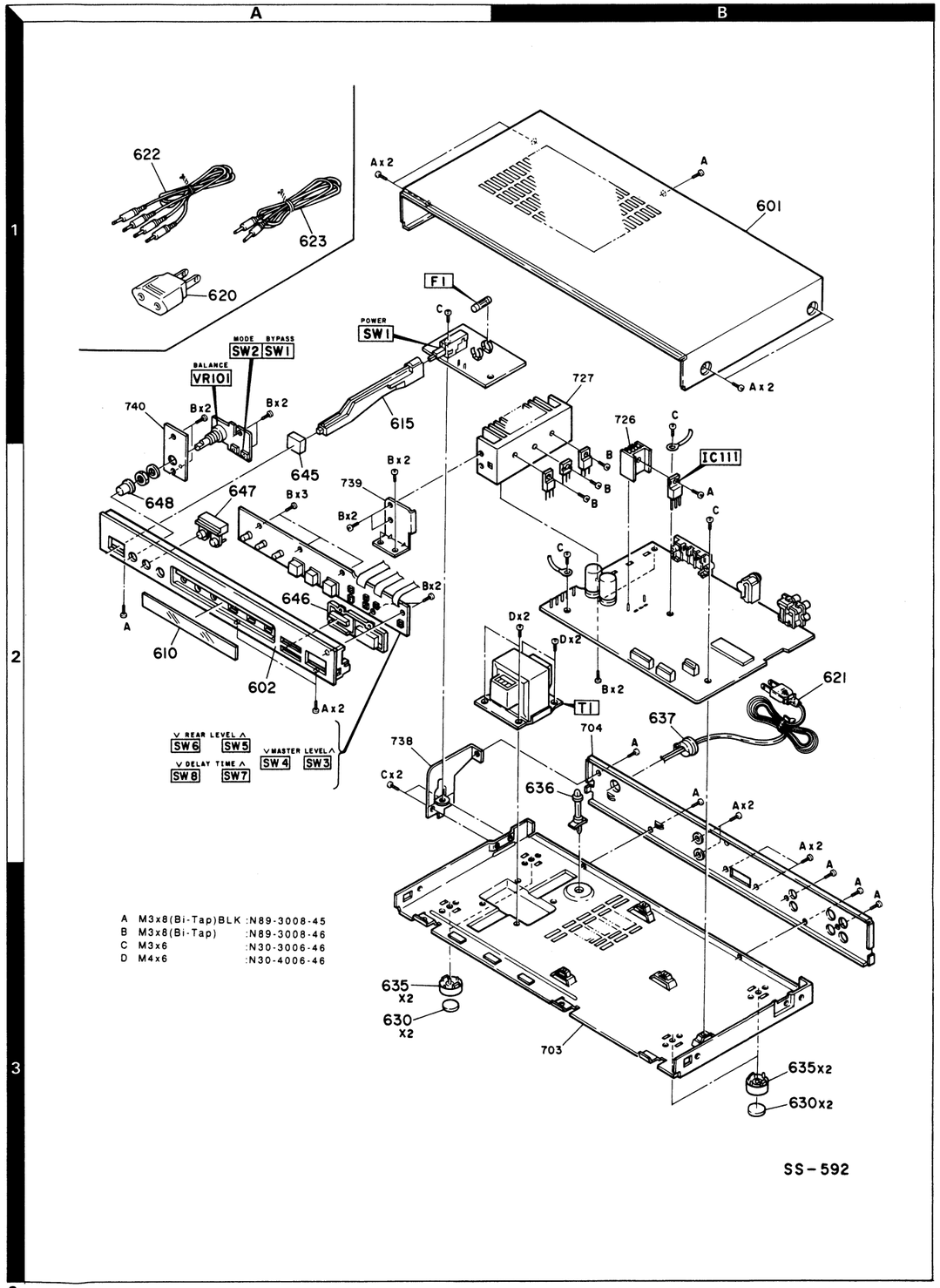
EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

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PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
			SS-592			
601	1B	*	A01-2981-08	METALLIC CABINET		
602	2A	*	A60-0302-08	FRONT PANEL		
610	2A	*	B10-1938-08	FRONT GLASS		
-		*	B60-0858-08	INSTRUCTION MANUAL(ENGLISH)	KYX	
-		*	B60-0859-08	INSTRUCTION MANUAL(ENG/FRE)	P	
-		*	B60-0860-08	INSTRUCTION MANUAL(E/S/C)	M	
615	1A	*	D21-1689-08	VR ESCUTION		
⚠ 620	1A		E03-0115-05	AC PLUG ADAPTER	M	
⚠ 621	2B		E30-0459-05	AC POWER CORD	M	
⚠ 621	2B		E30-0812-05	AC POWER CORD	Y	
⚠ 621	2B		E30-0974-05	AC POWER CORD	KP	
⚠ 621	2B		E30-1341-05	AC POWER CORD	X	
622	1A		E30-0505-05	AUDIO CORD		
623	1A		E30-2629-05	SYSTEM CORD		
630	3A,3B		G13-0267-08	CUSHION		
-			H10-3952-08	POLYSTYRENE FOAMED FIXTURE		
-			H25-0676-08	PROTECTION BAG		
-		*	H25-0682-08	PROTECTION BAG		
-		*	H50-0344-08	ITEM CARTON CASE	KPYX	
-		*	H50-0348-08	ITEM CARTON CASE	M	
635	3A,3B		J02-1066-08	FOOT		
636	2B	*	J19-3513-08	SUPPORT A		
637	2B	*	J42-0190-08	AC CORD STOPPER		
645	2A		K27-2083-08	KNOB (POWER)		
646	2A	*	K27-2093-08	KNOB (LEVEL)		
647	2A	*	K27-2094-08	KNOB (SURROUND)		
648	2A		K29-4444-08	KNOB (BALANCE)		
T1	2B	*	L07-0591-08	POWER TRANSFORMER	X	
T1	2B	*	L07-0592-08	POWER TRANSFORMER	KP	
T1	2B	*	L07-0593-08	POWER TRANSFORMER	YM	
			ELECTRIC PARTS			
D903-905		*	B38-0125-08	LED.DISPLAY		
D906-908			B30-0143-05	LED		
C1			C91-0647-05	CERAMIC 0.01UF P		
C101,102			CK45FB1H221J	CERAMIC 220PF J		
C103,104			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C105,106			CE04KW1H100M	ELECTRO 10UF 50WV		
C107			CF92FV1H473J	MF 0.047UF J		
C108,109			CF92FV1H153J	MF 0.015UF J		
C110			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C111			CE04KW1H100M	ELECTRO 10UF 50WV		
C112			CK45FB1H681K	CERAMIC 680PF K		
C113			CF92FV1H562J	MF 5600PF J		
C114			CE04KW1H100M	ELECTRO 10UF 50WV		
C115			CF92FV1H472J	MF 4700PF J		
C116			CK45FB1H561K	CERAMIC 560PF K		
C117,118			C90-1400-05	NP-ELEC 10UF 50WV		
C119			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C120			C90-1400-05	NP-ELEC 10UF 50WV		

L:Scandinavia **K:**USA **P:**Canada
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Y:AAFES(Europe) **X:**Australia **M:**Other Areas

⚠ indicates safety critical components.

PARTS LIST

× New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Telle ohne Parts No. werden nicht geliefert.

× 新規部品
(注)部品番号がないものは修理用部品として扱いません。

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C121			CF92FV1H333J	MF 0.033UF J		
C122			CF92FV1H472J	MF 4700PF J		
C123			CF92FV1H392J	MF 3900PF J		
C124			CF92FV1H683J	MF 0.068UF J		
C125			CF92FV1H224J	MF 0.22UF J		
C126,127			CK45FB1H270J	CERAMIC 27PF J		
C128			CK45B1H104J	CERAMIC 0.10UF J		
C129			CF92FV1H154J	MF 0.15UF J		
C130			CK45FB1H151K	CERAMIC 150PF K		
C131			CF92FV1H223J	MF 0.022UF J		
C132			CK45FB1H102K	CERAMIC 1000PF K		
C133			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C134			CE04KW0J471M	ELECTRO 470UF 6.3WV		
C135			CK45FB1H102K	CERAMIC 1000PF K		
C136			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C137			CF92FV1H223J	MF 0.022UF J		
C138			CK45FB1H151K	CERAMIC 150PF K		
C139,140			CE04KW1A221M	ELECTRO 220UF 10WV		
C141			CK45FB1H103K	CERAMIC 0.010UF K		
C142			CE04KW1C221M	ELECTRO 220UF 16WV		
C144			CE04KW1A221M	ELECTRO 220UF 10WV		
C145,146			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C147			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C148,149			CE04KW1H100M	ELECTRO 10UF 50WV		
C150-152			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C153,154			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C155,156			CK45FB1H221J	CERAMIC 220PF J		
C157			CE04KW1H100M	ELECTRO 10UF 50WV		
C158			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C159			CE04KW1H100M	ELECTRO 10UF 50WV		
C160,161			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C162			CE04KW1H100M	ELECTRO 10UF 50WV		
C163			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C164			CK45FB1H561K	CERAMIC 560PF K		
C165			CK45FB1H101K	CERAMIC 100PF K		
C166			CC45CH1H100D	CERAMIC 10PF D		
C167			CK45FB1H221J	CERAMIC 220PF J		
C168,169			CE04KW1V470M	ELECTRO 47UF 35WV		
C170,171			CK45FB1H103K	CERAMIC 0.010UF K		
C172			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C173			CF92FV1H104J	MF 0.10UF J		
C174			CK45B1H104J	CERAMIC 0.10UF J		
C175-177			CE04KW1H100M	ELECTRO 10UF 50WV		
C178,179			CE04KW1C101M	ELECTRO 100UF 16WV		
C180			CE04KW1C101M	ELECTRO 100UF 16WV		
C181			CK45B1H103K	CERAMIC 0.010UF K		
C182			CE04KW1H100M	ELECTRO 10UF 50WV		
C183,184			CE04KW1V332M	ELECTRO 3300UF 35WV		
C185			CE04KW1C221M	ELECTRO 220UF 16WV		
C187-190			CK45B1H103K	CERAMIC 0.010UF K		
C191			CE04KW1H221M	ELECTRO 220UF 50WV		
C193			CE04KW1H220M	ELECTRO 22UF 50WV		
C194			CK45FB1H471K	CERAMIC 470PF K		
C195			CK45FB1H103K	CERAMIC 0.010UF K		
C196			CK45B1H104J	CERAMIC 0.10UF J		

L:Scandinavia K:USA P:Canada
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⚠ indicates safety critical components.

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C197			CE04KW1C101M	ELECTRO 100UF 16WV		
C198			CE04KW1H0R1M	ELECTRO 0.1UF 50WV		
C199,200			CK45B1H103K	CERAMIC 0.010UF K		
C201,202			CK45FB1H103K	CERAMIC 0.010UF K		
C203			CE04KW1V101M	ELECTRO 100UF 35WV		
C204,205			CE04KW1H220M	ELECTRO 22UF 50WV		
C206			CK45FB1H331K	CERAMIC 330PF K		
C207			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C208,209		*	CK45FB1H680J	CERAMIC 68PF J		
C210			CK45FB1H103K	CERAMIC 0.010UF K		
C211,212			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C213			CK45FB1H103K	CERAMIC 0.010UF K		
C214,215			CK45B1H104J	CERAMIC 0.10UF J		
C216			CK45FB1H102K	CERAMIC 1000PF K		
JACK101		*	E13-0445-08	JACK,RCA		
JACK102			E11-0188-05	JACK,PHONE MINI		
JACK103		*	E70-0024-08	TERMINAL		
⚠ F1	1A		F04-1026-05	FUSE	KP	
⚠ F1	1A		F05-5016-05	FUSE	MXY	
-			J13-0075-05	HOLDER,FUSE		
L101			L39-1303-08	COIL		
L102			L40-1001-17	COIL,INDUCTOR		
L103			L40-1091-17	L-INDUCTOR		
X1			L77-1184-05	X-TAL		
X2			L78-0244-05	RESONATOR,CERAMIC		
R189,190		*	RS14DB3DR22JTE	FL-PROOF RS 0.22 J 2W		
R195			RS14DB3A100JTE	FL-PROOF RS 10 J 1W		
VR101	1A	*	R01-5085-05	POTENTIOMETER(VR,BAL)		
VR102,103		*	R12-5080-08	TRIMMING POTER		
SW1 ,2	1A		S40-1064-05	SW,TACT		
SW3 -8	2A		S40-1064-05	SW,TACT		
⚠ SW101			S40-1149-05	POWER SW		
⚠ SW102			S68-0011-08	SW VOLTAGE SELECTOR	MY	
D101,102			1SS133	DIODE		
D103			RD5.6ES(B2)	DIODE		
D104			1SS133	DIODE		
D105			1N4002	DIODE		
D106			1SS133	DIODE		
D107			RD6.2ES(B2)	DIODE		
D108-111		*	LT2A03	DIODE		
D112,113			1N4002	DIODE		
D114-128			1SS133	DIODE		
D901,902			1N4148	DIODE		
IC101,102			NJM4558DD	IC(OP AMP X2)		
IC103			LV1000N	IC		
IC104		*	LM3364K-15	IC		
IC105			NJM4558DD	IC(OP AMP X2)		
IC106		*	LC7536	IC		
IC107-109			NJM4558DD	IC(OP AMP X2)		
IC110		*	LC7536	IC		
IC111	1B		UPC7812AHF	IC(VOLTAGE REGULATOR/ +12V)		
IC112		*	UPC7912AHF	IC		
IC113			UPC7805AHF	IC(VOLTAGE REGULATOR/ +5V)		

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IC114		*	LC6520C-4861	IC		
Q101			2SC2878(B)	TRANSISTOR		
Q102			DTA143XS	TRANSISTOR		
Q103			2SC1740	TRANSISTOR		
Q104			DTA143XS	TRANSISTOR		
Q105			2SC1740	TRANSISTOR		
Q106,107			2SC2878(B)	TRANSISTOR		
Q108,109			2SC1740	TRANSISTOR		
Q110		*	KSC2316-Y	TRANSISTOR		
Q111			2SC2878(B)	TRANSISTOR		
Q112			DTA143XS	TRANSISTOR		
Q113		*	DTC114Y	TRANSISTOR		
Q114			DTA143XS	TRANSISTOR		
Q115		*	DTC114Y	TRANSISTOR		
Q116,117			2SC1740	TRANSISTOR		
Q118,119			2SA992(E,F)	TRANSISTOR		
Q120,121			2SC1845(F)	TRANSISTOR		
Q122			2SA992(E,F)	TRANSISTOR		
Q123			2SC4137(V,W)	TRANSISTOR		
Q124		*	KSC2316-Y	TRANSISTOR		
Q125		*	2SD2059	TRANSISTOR		
Q126		*	KSA916-Y	TRANSISTOR		
Q127		*	2SB1367	TRANSISTOR		
Q128			2SC1845(F)	TRANSISTOR		
Q129			2SA992(E,F)	TRANSISTOR		
Q130-132			2SC1740	TRANSISTOR		
Q133-138		*	2SA993S	TRANSISTOR		
Q139,140			2SC1740	TRANSISTOR		
W101		*	KH-WL1307A1	CONNECTOR ASSY		
W905		*	KH-WG0571A1	GROUND TERMINAL ASSY		

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SS-592

SPECIFICATIONS

Power output

10 watts per channel minimum RMS, both channels driven, at 8 Ω from 40 Hz to 6,000 Hz with no more than 0.9 % total harmonic distortion.

Frequency Response ..... 40 Hz ~ 6 kHz, +0 dB, –3 dB
Signal to Noise Ratio ..... 62 dB (at 1 kHz)
Input Sensitivity/Impedance ..... 150 mV/47 kΩ
Pre Output Level/Impedance (VR MAX.) ..... 1 V/600 Ω
Delay Time ..... 2 ~ 30 ms

General

Power Consumption ..... 50 W (U.S.A. and Canada models)
33 W (Other countries)

Dimensions ..... W : 440 mm (17 – 5/16")
H : 74 mm (2 – 15/16")
D : 282 mm (11 – 1/ 8")

Weight (Net) ..... 3.5 kg (7.7 lb)

Note:
KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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